Curriculum Vitae

Personal Information

Rohil Prasad
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Nationality: USA

Education

2018–2023 **Ph.D., Mathematics** (expected)
Princeton University
Advisor: Prof. Helmut Hofer

2014–2018 **A.B/A.M., Mathematics**, *magna cum laude*
Secondary degree, Computer Science
Harvard College
Thesis: The Seiberg–Witten invariant of a homology $S^1 \times S^3$.
Advisor: Prof. Clifford Taubes

Research

Publications and preprints

1. Prasad, R. Invariant probability measures from pseudoholomorphic curves I. *arXiv:2109.00102, Accepted at Journal of Modern Dynamics* (2022)
2. Prasad, R. Invariant probability measures from pseudoholomorphic curves II: Pseudoholomorphic curve constructions. *arXiv:2109.00106, Accepted at Journal of Modern Dynamics* (2022)
3. Cristofaro-Gardiner, D., Prasad, R., and Zhang, B. Periodic Floer homology and the smooth closing lemma for area-preserving surface diffeomorphisms. *arXiv:2110.02925, Submitted* (2021)
4. Cristofaro-Gardiner, D., Pomerleano, D., Prasad, R., and Zhang, B. A note on U-cyclic elements in monopole Floer homology. *arXiv:2110.13844, Accepted at Proceedings of the American Mathematical Society* (2022)
5. Prasad, R. Generic equidistribution of periodic orbits for area-preserving surface maps. *arXiv:2112.14601, Accepted at International Mathematics Research Notices* (2021)
6. Pirnapasov, A., and Prasad, R. Generic equidistribution for area-preserving maps of surfaces with boundary. *arXiv:2211.07548* (2022)

7. Prasad, R. Volume-preserving right-handed vector fields are conformally Reeb. *J. Fixed Point Theory Appl. 24*, 57 (2022)
8. Chaidez, J., Datta, I., Prasad, R., and Tanny, S. Contact homology and higher dimensional closing lemmas. *arXiv:2206.04738, Submitted* (2022)
9. Alwaise, E., Chen, S., Clifton, A., Patrias, R., Prasad, R., Shinners, M., and Zheng, A. Coincidences among skew stable and dual stable Grothendieck polynomials. *Involve 11*, 1 (2018), 143–167
10. Geneson, J., Prasad, R., and Tidor, J. Bounding sequence extremal functions with formations. *Electron. J. Combin. 21*, 3 (2014), Paper 3.24, 20

Teaching experience

Spring '21	**Princeton University** Position: Instructor Course: MAT 103 (Calculus I)
Fall '20	**Princeton University** Position: Grader Courses: MAT 365 (Topology), MAT 469 (Advanced Topology)
2015–2018	**Harvard College** Position: Undergraduate course assistant Courses: Math 55a/b, Math 25a/b, Math 112

Invited talks

July '23	"From Smooth to C^0 Symplectic Geometry" Conference at CIRM, Luminy, France
April '23	Geometry, Groups, and Dynamics Seminar, ENS Lyon, France
December '22	BACH Seminar on Symplectic and Contact Geometry
November '22	University of Iowa Geometry/Topology Seminar
September '22	Western Hemisphere Virtual Symplectic Seminar (virtual)
September '22	Columbia Symplectic Geometry, Gauge Theory, and Categorification Seminar
September '22	Low-Dimensional Topology and Homeomorphism Groups Workshop, Brin Mathematics Research Center, University of Maryland College Park
February '22	Princeton/IAS Symplectic Geometry Seminar
February '22	Princeton Topology Seminar
February '22	UMD College Park Geometry-Topology Seminar
February '22	Stony Brook Topology Seminar
November '21	Bochum Oberseminar Dynamical Systems (virtual)
November '21	Montreal/PU/IAS/Tel Aviv/Paris Symplectic Zoominar (virtual)

Professional service and outreach

Referee. *Proceedings of the National Academy of Sciences. Journal of Modern Dynamics.*
Princeton Math Climate and Inclusion Committee (Fall '22). *Graduate student representative.*
Peer Math Advisor (Spring '22–present). *Part of a network of older undergraduates and graduate students in the math department who are available as resources and connections for undergraduate students. Helped run a graduate school advice panel.*
Directed Reading Program Mentor (Fall '22). *Independent reading with an undergraduate on differential geometry and the Ricci flow*
Mentoring Mobius Mentor (Multiple semesters). *Monthly meals with and informal mentorship of a group of Princeton undergraduates.*

Honors and awards

2018–2023	NSF Graduate Research Fellowship.
2018	Thomas T. Hoopes Prize. *Prize for outstanding senior undergraduate thesis at Harvard College.*
2018	Robert Fletchers Rogers Prize. *Top undergraduate mathematics colloquium talk at Harvard College (fall semester).*
2013	Research Science Institute Scholar.
2012	Fifth place, Siemens National Science Competition.

Conferences and Workshops Attended

July '23	*Workshop on Dynamical Systems.* Oberwolfach, Germany
July '23	*From Smooth to C^0 Symplectic Geometry*, CIRM, Luminy, France
April '23	*Anosov Dynamics*, CIRM, Luminy, France
September '22	*Low-Dimensional Topology and Homeomorphism Groups.* Brin Mathematics Research Center, University of Maryland College Park, USA
June '22	*The Circle at Infinity: An International Colloquium in Honor of Curtis T. McMullen.* Harvard University, USA.
March '22	*Current Developments in Mathematics 2021–22.* Harvard University, USA.
July '21	*Workshop on Dynamical Systems.* Oberwolfach, Germany.
November '19	*Current Developments in Mathematics 2019.* Harvard University, USA.
July '19	*Current Trends in Symplectic Topology.* Université de Montréal, Canada.
December '18	*Symplectic Geometry and Homotopy Theory.* University of California Los Angeles, USA.